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ABSTRACT

An electrical connector that comprises an electrically insulating housing having a front end and a back end displaced along a longitudinal axis. An electrical contact receiving aperture is formed in the housing and is arrayed parallel to the longitudinal axis. The back end of the connector housing further includes a contact receiving entrance that has a given cross-sectional, one-way footprint and has a given length "L" along the longitudinal axis. An electrical contact is positioned in the contact-receiving aperture, and has the same cross-sectional, one-way footprint as the entrance. At least a portion of the longitudinal length of the contact, designated "L1" is sufficient to retain engagement with the contact receiving entrance until the contact enters the electrical contact-receiving aperture in the insulating housing. The one-way footprint assures correct alignment of the contact with the housing aperture and allows for a much smaller contact with lesser spacing between contacts, thus allowing for a greater contact density and a miniaturization of the connector.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100